LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-19 (canceled).

- 20. (Currently Amended) A plastic structural element, comprising: a fiber reinforced plastic material with a matrix-forming plastic; an insert having a length embedded in the matrixforming plastic material and a length that projects from the fiber reinforced plastic material whereby the length of the insert that projects from the fiber reinforced plastic material forms a connection for connecting attachment means, the insert exhibiting different values of at least one of elastic modulus and thermal expansion coefficients compared to the fiber reinforced plastic material; and a plastic coupling layer arranged on a surface of the insert to join the insert to the fiber reinforced plastic material, the coupling layer being an intermediate layer of fiberreinforced plastic, the fibers of which are not embedded in the matrix-forming plastic material of the plastic structural element, the coupling layer being of a material different from the fiber reinforced plastic material of the plastic structural element, and having a volume fraction of fibers, type of fibers, length of fibers and alignment of fibers or fiber layers so that at least one of the elastic modulus and the coefficient of thermal expansion changes through the coupling layer whereby the elastic modulus and the coefficient of thermal expansion between the fiber reinforced plastic material and the insert are equilibrated so that differences in at least one of the elastic modulus and the coefficient of thermal expansion at an interface between the fiber reinforced plastic material and the insert are minimized.
- 21. (Original) A plastic structural element according to claim 20, wherein the coupling layer contains a reinforced plastic in an epoxy resin matrix.
- 22. (Original) A plastic structure element according to claim 21, wherein the coupling layer contains fiber-reinforced plastic with a fiber content of 30-70 vol. %.

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- 23. (Original) A plastic structure element according to claim 22, wherein the fiber-reinforced plastic is a glass reinforced plastic (GRP).
- 24. (Original) A plastic structure element according to claim 23, wherein the glass reinforced plastic contains E-glass fibers.
- 25. (Original) A plastic structure element according to claim 22, wherein the fiber-reinforced plastic is a carbon reinforced plastic (CRP).
- 26. (Previously Presented) A plastic structural element according to claim 25, wherein the carbon reinforced plastic contains carbon fibers.
- 27. (Original) A plastic structure element according to claim 22, wherein the fiber-reinforced plastic is a mixture of carbon reinforced plastic and glass reinforced plastic.
- 28. (Original) A plastic structure element according to claim 22, wherein the fiber-reinforced plastic has a fiber content of 45-60 vol. %.
- 29. (Original) A plastic structure element according to claim 20, wherein the plastic material contains a reinforced plastic in an epoxy resin matrix.
- 30. (Original) A plastic structure element according to claim 29, wherein the reinforced plastic is a fiber-reinforced plastic with a fiber content of 40-70 vol. %.
- 31. (Original) A plastic structure element according to claim 30, wherein the fiber-reinforced plastic is one of glass reinforced plastic, carbon reinforced plastic and a mixture of glass reinforced plastic and carbon reinforced plastic.

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- 32. (Previously Presented) A plastic structural element according to claim 31, wherein the fiber-reinforced plastic is a carbon reinforced plastic.
- 33. (Original) A plastic structure element according to claim 30, wherein the plastic material has a fiber content of 55-65 vol. %.
- 34. (Original) A plastic structure element according to claim 20, wherein the insert contains a metal.
- 35. (Original) A plastic structural element according to claim 34, wherein the metal is one of aluminum, magnesium, an alloy containing aluminum, an alloy containing magnesium, steel and zinc coated iron.
- 36. (Original) A plastic structural element according to claim 20, wherein the insert is made of one of aluminum, magnesium, an alloy containing aluminum and an alloy containing magnesium, the plastic material being reinforced by fibers and having a fiber content of 40 to 70 vol. %, the coupling layer being reinforced by fibers, the coupling layer having a fiber content that is on average 5-15 vol. % lower than the fiber content of the plastic material.
- 37. (Original) A plastic structural element according to claim 36, wherein the plastic material is reinforced by carbon fibers.
- 38. (Original) A plastic structural element according to claim 36, wherein the coupling layer is reinforced by at least one of carbon fibers and glass fibers.
- 39. (Previously Presented) A plastic structural element according to claim 38, wherein the coupling layer is reinforced by one of carbon fibers and fiberglass.

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- 40. (Original) A plastic structural element according to claim 27, wherein at least one of the volume fraction of fibers in the coupling layer decreases toward the insert starting from the plastic material, and the volume fraction of glass fibers increases toward the insert in relation to the amount of carbon fibers.
- 41. (Original) A plastic structural element according to claim 36, wherein at least one of the volume fraction of fibers in the coupling layer decreases toward the insert starting from the plastic material, and the volume fraction of glass fibers increases toward the insert in relation to the amount of carbon fibers.
- 42. (Previously Presented) A plastic structural element according to claim 20, wherein the insert is made of one of aluminum, magnesium, an alloy containing aluminum and an alloy containing magnesium, the coupling layer being a layered composite and having a layered structure of fiber layers, wherein fibers in individual layers of the structure are oriented in at least one direction, at least one of the fibers and the fiber layers arranged next to the plastic material being aligned with a direction of neighboring fibers and the fiber layers in the plastic material so that a deviation in an angle of orientation of the fibers is less than 60°, one of the fibers and fiber layers adjacent to the insert having an orientation of 30° to 70° or + 30° to + 70°, where 0° represents a main direction of the forces actable on the insert.
- 43. (Original) A plastic structural element according to claim 42, wherein the deviation in the orientation of the fibers is less than 45°.
- 44. (Original) A plastic structural element according to claim 42, wherein the fibers are oriented in a direction parallel to a side face of the coupling layer.
- 45. (Original) A plastic structural element according to claim 22, wherein the fibers and the fiber reinforced plastic of the coupling layer are formed as fiber layers whereby a plurality of fiber layers form a fiber layer system, the individual fiber layers or the individual fiber layer systems made up of a sequence of fiber layers containing different types of fibers.

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- 46. (Original) A plastic structural element according to claim 44, wherein the fibers are carbon fibers and glass fibers, at least one fiber layer of glass fibers being arranged to lie against the embedded length of the insert.
- 47. (Previously Presented) A plastic structural element according to claim 42, wherein the fibers and the fiber reinforced plastic of the coupling layer are formed as fiber layers whereby a plurality of fiber layers form a fiber layer system, the individual fiber layers or the individual fiber layer systems made up of a sequence of fiber layers containing different types of fibers.
- 48. (Original) A plastic structural element according to claim 47, wherein the fibers are carbon fibers and glass fibers, at least one fiber layer of glass fibers being arranged to lie against the embedded length of the insert.
- 49. (Original) A plastic structural element according to claim 20, wherein the insert has a surface, at least the surface of the insert being made of one aluminum and aluminum alloy, portions of the insert surface which receive the coupling layer being chemically treated.
- 50. (Original) A plastic structural element according to claim 49, wherein the portions of the insert surface which receive the coupling layer are one of phosphate treated, chromate treated and anodically oxidized.
- 51. (Original) A plastic structural element according to claim 49, wherein the metallic surfaces of the insert are one of degreased and roughened at the portions receiving the coupling layer.
- 52. (Original) A plastic structural element according to claim 20, wherein the embedded length of the insert has an enlarged surface area.
- 53. (Original) A plastic structural element according to claim 52, wherein the enlarged surface area is formed by one of openings and grid-like structures in the insert.

- 54. (Original) A plastic structural element according to claim 20, wherein the embedded length of the insert has anchor-like elements.
- 55. (Original) A plastic structural element according to claim 54, wherein the anchor-like elements are one of hook-shaped, T-shaped and trapezium-shaped projections.
- 56. (Original) A plastic structural element according to claim 20, wherein the embedded length of the insert is shaped as an anchoring element.
- 57. (Original) A plastic structural element according to claim 56, wherein the anchoring element is formed by one of bends in the embedded length and corrugations.
- 58. (Original) A plastic structural element according to claim 20, wherein the insert has force transferring reinforcing fibers which are laminated into the plastic material so as to anchor the insert in the plastic material whereby the laminated-in reinforcing fibers are joined to the insert by a loop-type connection.
- 59. (Original) A plastic structural element according to claim 58, wherein the reinforcing fibers are aramide fibers.
- 60. (Original) A plastic structural element according to claim 20, wherein the insert has end parts that are tapered with a ratio of x:y of 1:30 to 1:10, wherein the ratio x:y represents a tangent of an acute angle which is formed by a line running parallel to a central axis and a line joining both end points of the tapering.

Claims 61-64 (canceled).

65. (Currently Amended) A plastic structural element, comprising:a <u>fiber reinforced</u> plastic material <u>with a matrix-forming plastic</u>; andat least one connecting part formed as an insert having a length embedded in the

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matrix-forming plastic material and a length that projects from the <u>fiber reinforced</u> plastic material to form a connecting point for attachment means, the insert exhibiting different values of at least one of elastic modulus and thermal expansion coefficients compared to the <u>fiber reinforced</u> plastic material, the plastic structural element exhibiting the following feature:

the insert having at least one aperture through which at least one of reinforcing fibers, fiber strands and textile type materials are looped and are embedded in and intermittently joined to the plastic matrix of the plastic structural element at its free end so as to anchor the insert in the plastic material.

66. (Currently Amended) A plastic structural element, comprising:

a fiber reinforced plastic material with a matrix-forming plastic; and

at least one connecting part formed as an insert having a length embedded in the matrix-forming plastic material and a length that projects from the fiber reinformed plastic material to form a connecting point for attachment means, the insert exhibiting different values of at least one of elastic modulus and thermal expansion coefficients compared to the fiber reinforced plastic material, the plastic structural element exhibiting the following feature:

the imbedded length of the insert is one of strip-shaped and finger-shaped with a plurality of strips or fingers configured so as to reduce a geometrical movement of inertia of the embedded length, the strips or fingers one of lie parallel, are comb-like and fan-shaped.

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